

20000828.qrp v01_n927.qrl.20000828

Date: Mon, 28 Aug 2000 19:03:04 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1927

QRP-L Digest 1927

Topics covered in this issue include:

- 1) [78219] FOX Ben, NW7DX
by "Karl F. Larsen" <k5di@zianet.com>
- 2) [78220] Re: A Couple of Questions
by "Russ Hines" <radioruss@fuse.net>
- 3) [78221] Re: A Couple of Questions
by "John J. McDonough" <wb8rcr@arrl.net>
- 4) [78222] FOX
by "Jay Henson" <jbhenson@zebra.net>
- 5) [78223] Re: PSK31 & Baycom BP-2M ?
by Bob Nielsen <nielsen@oz.net>
- 6) [78224] Re: Low Noise Op Amps
by Dan Tayloe <dtayloe@home.com>
- 7) [78225] Re: FOX Ben, NW7DX
by "George , W5YR" <w5yr@att.net>
- 8) [78226] AL7FS in Iowa and Wisconsin + temp email address.
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
- 9) [78227] Re: QRP Tuner
by Cwkmail@aol.com
- 10) [78228] Fox- NW7DX Reports on the hunt
by BenNW7DX@aol.com
- 11) [78229] Re: OT - QRP ops and Submarines
by Richard Arland <k7sz@epix.net>
- 12) [78230] HB - Need Meter Specs
by Norman Young <norman_y@yahoo.com>
- 13) [78231] Confirming thread membership
by "Laurent C. Lafond" <aa1qj@loa.com>
- 14) [78232] FT or FS: Red Hot Radio 40M kit
by "N3BJ" <qrpdx@earthlink.net>
- 15) [78233] WTB: DSW30 or DSW80
by "N3BJ" <qrpdx@earthlink.net>
- 16) [78234] Re: Thanks to Everyone!
by "Bob Tellefsen" <n6wg@earthlink.net>
- 17) [78235] YAS (Yet Another SMK-1)
by "Bob Tellefsen" <n6wg@earthlink.net>
- 18) [78236] QSOed N7XJ/p
by "Steve/n0tu" <n0tu@webaccess.net>
- 19) [78237] Re: Neat Dipole

- by Thomas Kuehl <ac7a@gci-net.com>
- 20) [78238] RE: 30m HOT -- T77C & 6Z4DHI!
by Adrian Weiss <aweiss@usd.edu>
- 21) [78239] QRP prob with filter
by "Tom Dufresne" <tdufres@hotmail.com>
- 22) [78240] Re: QRP prob with filter
by "George , W5YR" <w5yr@att.net>
- 23) [78241] FOX: Emergency Pelt in CO
by "Marshall Emm" <mgemm@mtechnologies.com>
- 24) [78242] Re: OT - QRP ops and Submarines
by Bruce Muscolino <w6toy@erols.com>
- 25) [78243] Re: Fox- NW7DX Reports on the hunt
by "Brian" <brian@iquiest.net>
- 26) [78244] RE: CQC QSO Party This Sunday
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 27) [78245] FS: Complete Argosy Station
by "Mark Adams" <k2qo@hotmail.com>
- 28) [78246] FS: TenTec 20-6M Transverter
by "Mark Adams" <k2qo@hotmail.com>
- 29) [78247] QRP-L Web Site (was: Re: QRP Tuner)
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 30) [78248] FT-817
by eric <k1nun@altavista.com>
- 31) [78249] FT-817
by Ronald_A_Pfeiffer@res.raytheon.com
- 32) [78250] RE: HB - Need Meter Specs
by "AI2Q Alex" <ai2q@ispchannel.com>
- 33) [78251] Contest: Bubba K7RE Results
by Brian Kassel <bkassel@dancris.com>
- 34) [78252] TT2
by JOHN FISHER <ve7fdg@mad.scientist.com>
- 35) [78253] FYI
by Elliott Lawrence <edl@pacbell.net>
- 36) [78254] NC20 AFA Xtal revisited
by "Rod, N0RC" <n0rc@qsl.net>
- 37) [78255] BUBBA-NQ7RP
by "Floyd Smithberg" <flydnq7x@primenet.com>
- 38) [78256] Re: NC20 AFA Xtal revisited
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 39) [78257] Re: Low Noise Op Amps
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 40) [78258] Re: FYI
by Elliott Lawrence <edl@pacbell.net>
- 41) [78259] Smallest antenna used to set KM/watt Record?
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 42) [78260] Contest: CQC QSO Party Results - K7RE
by Brian Kassel <bkassel@dancris.com>
- 43) [78261] SMK-1

- by hattonte@gdls.com
- 44) [78262] Re: NC20 AFA Xtal revisited
by ekwik@rtimail.com
- 45) [78263] Re: Low Noise Op Amps
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
- 46) [78264] HF Rig for sale
by David J Adams <david@theadamsclan.com>
- 47) [78265] Query on US\$, OT ish
by Euramcom <mel@euramcom.freemove.co.uk>
- 48) [78266] N4BP CQC QSO Party
by Bob Patten <n4bp@bc.seflin.org>
- 49) [78267] OT: Antenna problem
by "M0CQG" <m0cqq@dial.pipex.com>
- 50) [78268] Re: Contest: CQC QSO Party Results - K7RE
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 51) [78269] K1 Completed and first QSO down!
by Jeff Grudin <grudin@vdb.com>
- 52) [78270] RE: Antenna problem
by "Coote, Jay" <JCoote@ci.arcadia.ca.us>
- 53) [78271] CQC Test NQ7X
by "Floyd Smithberg" <flydnq7x@primenet.com>
- 54) [78272] ANT- Gap Challenger in the wind
by "steve" <sblary@bellsouth.net>
- 55) [78273] Diode Question
by "Merryprankster@cwcom.net" <merryprankster@cwcom.net>
- 56) [78274] Re: Diode Question
by "Mike Yetsko" <myetsko@insydesw.com>
- 57) [78275] K2 Nabs Fox Pelt at Bris
by "Damon S Raphael, MD (w7md)" <w7md@azstarnet.com>
- 58) [78276] OT: ARD
by "Russ Hines" <radioruss@fuse.net>
- 59) [78277] Re: Diode Question
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>
- 60) [78278] Antenna G/T
by Luke Stras <stras@ecf.toronto.edu>
- 61) [78279] Re: Query on US\$, OT ish
by "Karl F. Larsen" <k5di@zianet.com>
- 62) [78280] Re: OT - QRP ops and Submarines
by Mike <mmorrow@companet.net>
- 63) [78281] Re: Contest: CQC QSO Party Results - K7RE
by "Karl F. Larsen" <k5di@zianet.com>
- 64) [78282] Re: Diode Question
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 65) [78283] Re: Diode Question
by "Mike Yetsko" <myetsko@insydesw.com>
- 66) [78284] Great Customer Service from Small Wonder Labs
by Paul Womble <pwomble1@tampabay.rr.com>
- 67) [78285] Re: OT - QRP ops and Submarines

by Mike <mmorrow@companet.net>
68) [78286] RE: NC20 AFA Xtal revisited
by Mike Gipe <mgipe@reliablemeters.com>
69) [78287] Revised N4BP CQC
by Bob Patten <n4bp@bc.seflin.org>
70) [78288] Re: Diode Question
by "Mike Branca" <w3irz@att.net>
71) [78289] FS: TenTec Century 21
by DaveLeDuc@aol.com
72) [78290] Re: Noise 101 Was Re: Low Noise Op Amps (long)
by Richard Voss <rbvoss@gsinet.net>
73) [78291] At the Beach with the EPS-1 and AA Alkaline Batteries
by Larry S Cahoon <wd3p@juno.com>

Date: Sun, 27 Aug 2000 17:13:19 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [78219] FOX Ben, NW7DX
Message-ID: <Pine.LNX.4.10.10008271649180.1653-1000000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ben was Q5 here in southern NM the entire 2 hours. But his signal changes as he rotates his beam. Caught him on a swing South...:-)

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Sun, 27 Aug 2000 19:15:21 -0400
From: "Russ Hines" <radioruss@fuse.net>
To: <thecabal@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78220] Re: A Couple of Questions
Message-ID: <001e01c0107c\$ae526b40\$0f2044d8@rbhines>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Jason:

You can "guesstimate" the capacitance of an air variable by the following:

$$C = (A \cdot \epsilon_r \cdot \epsilon_0) / d$$

where

C = capacitance, in farads

A = area of plates, cm²

d = spacing of the plates, cm

ϵ_r = dielectric constant of the insulating material (air = 1)

ϵ_0 = permittivity of free space, 8.85×10^{-14} F/cm.

You can find this formula in the Handbook, that's where I got it.. And I say "guesstimate" because air variable plates are usually not an easy shape to measure (from elongated half-moon to kidney shaped), plate spacings can get QUITE small, measuring skills vary, and it's difficult to know how much stray capacitance is involved (for example, interaction of unmeshed plates, etc.).

BTW, you'll need to compute this twice, for fully meshed and unmeshed conditions. That will give you an estimated range.

Get your calipers out and have fun. ;-)

73,
Russ
WB8ZCC

----- Original Message -----

From: Jason Milldrum <thecabal@mindspring.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Sunday, August 27, 2000 5:55 PM

Subject: A Couple of Questions

> Hi group,

>

> First: Can any of you EE types tell me how I can measure the unknown
> capacitance of an air variable capacitor? I have some ideas but I'm not
> sure at all whether I'm on the right track at all.

>

> Second: Does anyone know of a good way to use 450-ohm ladderline to make
a

> good portable antenna, like a folded dipole perhaps. Or something along
> those lines that would be light, compactable, easy to build, and have
> reasonable performance.

>

> Thanks,

> Jason
>
> -----
> Jason Milldrum, KD7JKI
> Salem, Oregon, USA
> ARRL | QRP-L #2209 | FPQRP #118 | hamradiochat
> Web: <http://thecabal.home.mindspring.com>
>
> Join the hamradiochat discussion group:
> <http://thecabal.home.mindspring.com/kd7jki/hamradiochat/>
> -----
>

Date: Sun, 27 Aug 2000 19:17:05 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: <thecabal@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [78221] Re: A Couple of Questions
Message-ID: <015b01c0107c\$eafcd080\$010044c0@Conor.baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have a great dearth of test gear, so let me explain how I would do it.
You probably don't have quite the same stuff as I do, so you'll need to
improvise, but a wide range of measurements subccumb to the same logic.

First, I would make a guess by looking at it. Let's say I figure it's
around 100pF. Now, I would calculate the reactance at that guessed
capacitance, and at the frequency of one of my Fireball 40's ... say,
14.060MHz. I would connect it in series with a resistor of about the same
value (very about ... within a factor of 10 or so).

Now I would excite the circuit with the Fireball, and measure the voltage
across the resistor and the capacitor (with a homemade RF probe on my trusty
Radio Shack DVM). A little onms law and I know the reactance of the cap,
and now I know the capacitance.

All sorts of measurements fall to this sort of technique for those of us who
are test gear impared.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

-----Original Message-----

From: Jason Milldrum <thecabal@mindspring.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Sunday, August 27, 2000 6:00 PM
Subject: A Couple of Questions

>Hi group,

>

>First: Can any of you EE types tell me how I can measure the unknown
>capacitance of an air variable capacitor? I have some ideas but I'm not
>sure at all whether I'm on the right track at all.

Date: Sun, 27 Aug 2000 18:21:00 -0500
From: "Jay Henson" <jbhenson@zebra.net>
To: "QRP-L" <qrp-1@Lehigh.EDU>
Subject: [78222] FOX
Message-ID: <000301c0107d\$776a8580\$310f0cd1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello erylone,

Some of the most fun I have had with amateur radio over the last few years has been chasing the foxii. And some of the most exasperating, blood pressure raising, difficult (etc..) times I have had has been chasing the foxii.

Today was the toughest that I can remember. Ben was there, but barely. I could hear him but there was no way I could copy what he was sending, and I knew what that was supposed to be. Not too many hunters heard either. For over an hour and 45 ,imutes, I turned every knob and pushed, punched, and/or slapped every button I could on my K2, just trying to pull him through the local noise. Finally, there he was. I took the shot and after a couple of exchanges, done deal. I gave Ben a 339 and I think that was being generous. Thanks for being there Ben. The strongest signal heard all afternoon was Tom, N1TP. He was shooting over me to get from FL to WA. I am sure that the RF blackhole around Mobile was sucking in some of his signal and not letting it out. Other than Tom, I really did not catch any other hounds.

My best to everyone.

See you on the radio.

Jay

AJ4AY Mobile, AL

QRP-L #1372 ARCI #8131 SOC#220 FP#115

Date: Sun, 27 Aug 2000 16:56:36 -0700
From: Bob Nielsen <nielsen@oz.net>
To: qrp-l@lehigh.edu
Subject: [78223] Re: PSK31 & Baycom BP-2M ?
Message-ID: <20000827165636.A23342@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

On Sun, Aug 27, 2000 at 01:15:55PM -0400, Rick McKee wrote:

> Gang,

>

> Anyone on the list know of any psk31 software that will work with the
> Baycom multimode ? I have an old 286 laptop that I would like to use
> with my Radio Shack HTX-10 as a portable psk rig. I also would like to
> hear about any software that allows APRS with the little Baycom unit !

I haven't seen any psk31 software which doesn't use a sound card.
xastir will do aprs with a baycom, sound card, etc. It runs in Linux,
however, not MS-DOS.

--

Bob Nielsen, N7XY
Bainbridge Island, WA

nielsen@oz.net
<http://www.oz.net/~nielsen>

Date: Sun, 27 Aug 2000 17:06:58 -0700
From: Dan Tayloe <dtayloe@home.com>
To: henryf@quartz.gly.fsu.edu, qrp-l <qrp-l@Lehigh.EDU>
Subject: [78224] Re: Low Noise Op Amps
Message-ID: <39A9AD22.1AA0D9D6@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>I don't have much experience specing out op-amps. What does nV/rHz
>mean? nanovolts per ?hertz? Guess the lower the number the better?

Henry:

It means what it says. If this is being used in the front end of a DC receiver, 4 nV/SqrtHz really only means anything given a bandwidth. If my receiver is going to have an audio filter 500 Hz wide, then the noise of this op-amp referenced to the input side of the op-amp is:

$$4 * \text{Sqrt}(500) = 4 * 22.4 = 89.4 \text{ nV of noise}$$

Now you need to include the series input resistors on the op-amp also. If these were 1K and there were one on the + side, and one on the - side, you have 2K total (at least that is what the app note said). The noise contribution of those resistors are $0.13 * \text{Sqrt}(R) * \text{Sqrt}(\text{Bandwidth})$ with a units of nV.

$$0.13 * \text{Sqrt}(2000) * \text{Sqrt}(500) = 130 \text{ nV of noise.}$$

Notice that the 1K resistors have more noise than the op-amp! Since the noise is uncorrelated, the total input noise is the RMS sum or:

$$\text{Sqrt}(89.4 * 89.4 + 130 * 130) = 157 \text{ nV of RMS noise.}$$

Now if the receiver has 100 db of gain (100,000 x) the "white noise" of the receiver at full gain will be $100,000 * 157e-9 = 15.7 \text{ mV RMS of noise}$ which will indeed be audible.

On the other hand nV/SqrtHz needs to be closely evaluated. The data sheet for the op-amp will show a plot for noise vs frequency. Sometimes, a non-audio op-amp will show the rated noise level only at a higher frequency such as 1 KHz. The noise level is typically worse at lower frequencies, improving at higher frequencies. For cw type audio, I would like to see low noise performance starting at 200 Hz or so.

If the op-amp is used on the speaker side of the volume control (after the normal audio filter shaping), simple audio filtering such as a cap in parallel with the feedback resistance will help kill the gain at high frequencies so that

you don't
hear very broad band, high frequency hiss.

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Sun, 27 Aug 2000 19:10:30 -0500
From: "George , W5YR" <w5yr@att.net>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78225] Re: FOX Ben, NW7DX
Message-ID: <39A9ADF6.E0CF71A5@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Think I heard him calling you next after I worked him at 2009. That rotator must have been getting warm - his signal varied from in the noise to 559. When things started, he was right in my line noise level - figured it would be a long, tough afternoon! <:}

Once again the attic antenna worked better than any of the outside ones.

72/73, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556
(12/99)

"Karl F. Larsen" wrote:

>
> Ben was Q5 here in southern NM the entire 2 hours. But his signal
> changes as he rotates his beam. Caught him on a swing South...:-)

Date: Sun, 27 Aug 2000 16:31:56 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [78226] AL7FS in Iowa and Wisconsin + temp email address.
Message-ID: <39A9B2FC.820F9599@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings from Alaska,

I am going to be in Atlantic, Iowa from August 28 through September 10 and in Watertown, Wisc from Sept 10 through September 22. I hope to be operational on 20 and 40 meters with a W3EDP type of antenna and two monoband rigs. I may do some operating with my Mom's TS120S on SSB. She is K0JGL, Jeanette.

I hope to run into some of you while I am down there.

73, Jim

mailto:AL7FS@hotmail.com for the next four weeks.

--

Jim Larsen, AL7FS, Anchorage, Alaska

QRP-L CD Ver. 3.1 available: <http://www.qsl.net/al7fs/QRP-CDver3.htm>

QRP ARCI #6754 Check out <http://www.qrparci.org/>

<http://www.qsl.net/al7fs/> mailto:al7fs@pobox.alaska.net

Date: Sun, 27 Aug 2000 20:38:35 EDT

From: Cwkmail@aol.com

To: qrp-l@lehigh.edu

Subject: [78227] Re: QRP Tuner

Message-ID: <20.ab6eae7.26db0e8b@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Bob Kellog, AE4IC, has evaluated the performance a variety of commercial tuners. His results are posted on the QRP ARCI site under "QRP-L member articles." You might also consult Frank Witt, AI1H, who's studied, tested, and written articles about tuners. He's an ARRL technical advisor. He can be contacted at "fjw@world.std.com".

Chris, NV1E

Shrewsbury, MA

Date: Sun, 27 Aug 2000 21:09:02 EDT

From: BenNW7DX@aol.com

To: qrp-l@lehigh.edu

Subject: [78228] Fox- NW7DX Reports on the hunt

Message-ID: <b2.9f24ce9.26db15ae@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Wow - What a wonderful way to spend a Sunday afternoon! I would like to thank everyone for stopping by and giving me a call. The rush of having 20+ stations calling at the same time is an Awesome feeling! It is always fun to crank up the keyer and crank out those QSO's. (I hope I didn't get too carried away with the cw at the begining). I was surprised though, that the pile up was conquered so fast. After only 30 minutes, I was in the "begging mode". This lasted pretty much throughout the whole hunt, and it usually took a few calls to stir things up.

Despite the lower-than-average conditions, there were some HUGE signals that made it into the log. In fact, Doc K0EVZ even gave me a second call running only 100mw and he was a FB 569!! There were some times though, where I knew there was a station down in the noise, but even after puting the narrow filter in, adjusting the DSP (the FT-920's DSP worked really nicely) and crunching my earphones to my ears, I just could not copy. Sorry if you didn't make it into the log.

Well, all in all, I think I did a pretty good job. Ok, here's what you've all been waiting for... the first draft of the log! Hopefully all of the columns won't be screwed up in the e-mail.

==

2000 Summer Fox Hunt NW7DX

Band	Date	Time	QSO#	Call	worked	Sent	Rcvd	Name	Qth	NR/PWR
----	----	----	----	-----		----	----	----	---	-----
20CW	27-Aug-00	20:00	1	K0EVZ		559	579	DOC	ND	861
20CW	27-Aug-00	20:01	2	WJ1R		559	559	LARRY	CO	2137
20CW	27-Aug-00	20:01	3	AF5Z		559	559	BOB	TX	984
20CW	27-Aug-00	20:02	4	W7ILW		559	559	HOWARD	AZ	2010
20CW	27-Aug-00	20:02	5	K5E0A		559	559	WAYNE	LA	5w
20CW	27-Aug-00	20:03	6	KB7N		559	559	MARK	WA	1w
20CW	27-Aug-00	20:04	7	NQ7X		559	559	FLOYD	AZ	343
20CW	27-Aug-00	20:04	8	K9IUA		559	559	KEVIN	ND	384
20CW	27-Aug-00	20:05	9	K5AAR		559	559	DON	OK	1512
20CW	27-Aug-00	20:05	10	N5TW		559	559	TOM	TX	1474

20CW	27-Aug-00	20:06	11	W5YR	559	559	GEO	TX	1373
20CW	27-Aug-00	20:06	12	K5DI	559	579	KARL	NM	2195
20CW	27-Aug-00	20:07	13	W0CH	559	559	DAVE	MO	618
20CW	27-Aug-00	20:08	14	VE5RC	559	559	BRUCE	SK	886
20CW	27-Aug-00	20:08	15	K1LOG/7	559	559	RICK	WA	5w
20CW	27-Aug-00	20:09	16	N5GLQ	559	569	MIKE	LA	5w
20CW	27-Aug-00	20:09	17	AE9F	559	579	DAN	CA	5w
20CW	27-Aug-00	20:10	18	AF4LQ	559	559	MIKE	KY	1395
20CW	27-Aug-00	20:11	19	K5OI	559	559	TIM	NM	73
20CW	27-Aug-00	20:12	20	W6ASH	559	559	WALT	CA	5w
20CW	27-Aug-00	20:13	21	WA7SPY	559	559	GLENN	CA	2214
20CW	27-Aug-00	20:14	22	W0RW	559	599	PAUL	CO	1284
20CW	27-Aug-00	20:15	23	KK5LD	559	599	DAN	TX	2052
20CW	27-Aug-00	20:15	24	K5JHP	559	559	BILL	TX	825
20CW	27-Aug-00	20:16	25	N9AW	559	559	JERRY	WI	1271
20CW	27-Aug-00	20:17	26	W4NJK	559	559	CHARLIE	CA	2075
20CW	27-Aug-00	20:18	27	W4EN	559	559	ED	NJ	2216
20CW	27-Aug-00	20:19	28	K7Q0	559	599	CHUCK	AZ	1
20CW	27-Aug-00	20:19	29	KA1DDB	559	559	MIKE	MI	2064
20CW	27-Aug-00	20:20	30	NV4V	559	539	PETE	KY	1721
20CW	27-Aug-00	20:21	31	K5LN	559	559	BILL	TX	1794
20CW	27-Aug-00	20:22	32	NK7M	559	449	BOB	AZ	271
20CW	27-Aug-00	20:23	33	W7HR	559	599	RANDY	WA	5w
20CW	27-Aug-00	20:24	34	NY5A	559	559	DON	CA	1517

20CW	27-Aug-00	20:24	35	N1FN	559	559	ET	CO	153
20CW	27-Aug-00	20:25	36	W3CD	559	599	BOB	CA	238
20CW	27-Aug-00	20:26	37	K5PSH	559	569	JERRY	TX	5w
20CW	27-Aug-00	20:27	38	JR1NKN/W7	559	589	ZUO	WA	3w
20CW	27-Aug-00	20:28	39	K6VNX	559	579	ARLEN	CA	5w
20CW	27-Aug-00	20:35	40	VE5QRP	559	559	BRUCE	SK	5w
20CW	27-Aug-00	20:37	41	KC1FB	559	559	JIM	CT	29
20CW	27-Aug-00	20:39	42	KM5VY	559	559	TOM	NM	1592
20CW	27-Aug-00	20:40	43	AA7EQ	559	559	BOB	AZ	2186
20CW	27-Aug-00	20:43	44	K5GGB	559	559	ROD	TX	2331
20CW	27-Aug-00	20:47	45	N0RC	559	559	ROD	CO	1764
20CW	27-Aug-00	20:52	46	W6BAB	559	589	HARVEY	CA	5w
20CW	27-Aug-00	20:58	47	VE7SL	559	339	STEVE	BC	761
20CW	27-Aug-00	20:59	48	K0CO	559	569	JACK	CO	618
20CW	27-Aug-00	21:04	49	K0YO	559	599	MIKE	CO	72
20CW	27-Aug-00	21:08	50	K1QM	559	449	JOEL	MA	337

2000 Summer Fox Hunt NW7DX

Band	Date	Time	QSO#	Call worked	Sent	Rcvd	Name	Qth	NR/PWR
----	----	----	----	-----	----	----	----	----	-----
20CW	27-Aug-00	21:11	51	N9SE	559	449	MARTY	IN	1w
20CW	27-Aug-00	21:12	52	KG4BIG	559	559	KEN	KY	1974
20CW	27-Aug-00	21:13	53	W7MD	559	559	DAMON	AZ	2190
20CW	27-Aug-00	21:15	54	N5ZE	559	449	LEW	TX	2178

20CW	27-Aug-00	21:18	55	AD6JY	559	599	DAN	CA	2163
20CW	27-Aug-00	21:19	56	AJ4Y	559	339	PAUL	FL	1795
20CW	27-Aug-00	21:23	57	KI0RB	559	559	VINCE	CO	1283
20CW	27-Aug-00	21:29	58	WB8RCR	559	549	JOHN	OH	1446
20CW	27-Aug-00	21:30	59	KD6VIO	559	559	BOB	CA	5w
20CW	27-Aug-00	21:34	60	KF6RMK	559	599	BILL	CA	2w
20CW	27-Aug-00	21:36	61	VE5VA	559	599	PETE	SK	46
20CW	27-Aug-00	21:38	62	AG0T	559	559	TODD	ND	2211
20CW	27-Aug-00	21:42	63	N1TP	559	339	TOM	FL	1317
20CW	27-Aug-00	21:46	64	AJ4AY	559	339	JAY	AL	1372
20CW	27-Aug-00	21:49	65	AF4PS	559	559	MAC	FL	704
20CW	27-Aug-00	21:50	66	WS4S	559	539	CONARD	TN	993
20CW	27-Aug-00	21:51	67	N5IW	559	559	DAVE	TX	1718
20CW	27-Aug-00	21:53	68	W6CJ	559	579	JAY	CA	3w
20CW	27-Aug-00	21:54	69	WA0SXV	559	559	MIKE	MO	1w
20CW	27-Aug-00	21:55	70	KI0II	559	579	RON	CO	928
20CW	27-Aug-00	21:56	71	W7VP	559	559	BILL	WA	5W
20CW	27-Aug-00	xx:xx	72	NW7DX	559	559	BEN	WA	1892

== Well, Thanks alot for the wonderful experience, and I'll see you all this Thursday for the first-ever DOUBLE HUNT!!

72 and gud hunting,
Ben - NW7DX

Date: Mon, 28 Aug 2000 01:03:30 -0400
From: Richard Arland <k7sz@epix.net>
To: baltimoremd@baltimoremd.com

Content-Transfer-Encoding: 7bit

Check with Fred Turpin, K6MDJ, as he was a Sparks on a diesel-electric nuke hull boat back in the late 50s. I've heard a couple of his stories including having to use the old TCS-12 in an emergency when their antennas had been sheared off!

QSL him via CB.

73 Rich K7SZ

"baltimoremd@baltimoremd.com" wrote:

>

>

>

 $\succ$

> 73

```
> thom
```

 $\succ$

> baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster

>

> <http://www.baltimorehon.com> Home of the Baltimore Lexicon

```
> http://www.min.net/~thom/      QRP and Drake Mail List Pages
```

Content-Type: text/plain; charset=us-ascii

Gang,

I want to build the QRP watt meter shown in the August, 2000 QST. I have gathered all the parts, except for the meter itself.

I have 3 G.E. meters that I picked up at a hamfest last year, and each has different scales, depending on their original use. All, however, are labeled "Type D0 91" and appear to be identical, so I assume that all have essentially the same specs. Although they are a little old, these are high quality meters, and I'd like to use one of them for the watt meter.

Now I know I can cobble together a test circuit to see if these meters are the 100 uA or 200 uA called for, but before I do all that, I wonder if anyone out there is familiar with these meters or knows where I can get the specs.

Any help will be greatly appreciated by me, and the rest of the list will probably appreciate it if you reply directly to me.

Thanks & 72,
Norman
KA4PUV

Do You Yahoo!?
Yahoo! Mail - Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Sun, 27 Aug 2000 18:52:58 -0700
From: "Laurent C. Lafond" <aa1qj@loa.com>
To: qrp-l@Lehigh.EDU
Subject: [78231] Confirming thread membership
Message-ID: <39A9C5FA.D558AFD2@loa.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Haven't been around for a while, and just wanted to see if my 'membership' was still active.

Thanks for the bandwidth.

Date: Sun, 27 Aug 2000 22:14:52 -0400
From: "N3BJ" <qrpdx@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78232] FT or FS: Red Hot Radio 40M kit
Message-ID: <009301c01095\$c129fda0\$96dbcdcf@pavilion>

For trade or sale: RHR40, unbuilt, sealed bag, all there, surplus to my needs. Currently unavailable, get one NOW !

Would like to trade for DSW40, other QRP rig, sell for \$135 shipped in US.

Alan, N3BJ
Bent Mountain, VA

Date: Sun, 27 Aug 2000 22:20:44 -0400
From: "N3BJ" <qrpdx@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78233] WTB: DSW30 or DSW80
Message-ID: <00a301c01096\$92c819a0\$96dbcdcf@pavilion>

Looking for a DSW30 or DSW80, built or unbuilt, non-working, parts missing rig OK. Also looking for a DSW40 if available.

Please let me know if you have one that is surplus to your needs.

Alan, N3BJ
Bent Mountain, VA

Date: Sun, 27 Aug 2000 20:18:17 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@Lehigh.EDU>
Subject: [78234] Re: Thanks to Everyone!
Message-ID: <003501c0109e\$9cc4e340\$1bfbb3d1@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Teresa

Congratulations on a great start in ham radio. It's been a wonderful hobby for me for the past 48 years. I hope one day you will be able to say the same.

I'm an ex KL7 myself (KL7SMC), having spent several years out at Tok Junction in the Alaska Comm'ns System while AK was still a territory.

On your ground rod, you might note that it doesn't have to be driven in vertically to work. If you can dig a trench maybe 18 inches deep and lay the ground rod on its side and bury it, it should accomplish about the same as a driven rod.

Talking about antennas, I noted during my time up there that wood frozen to -60 F becomes pretty close to a perfect insulator :-) During the winter you might just throw a wire over a branch and let it hang.

Hope to hear you on the air one day.

73, Bob N6WG Newark, CA on San Francisco Bay

Date: Sun, 27 Aug 2000 20:31:15 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [78235] YAS (Yet Another SMK-1)
Message-ID: <004401c010a0\$6c9b4220\$1bfbb3d1@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Finally finished my SMK-1 and fired it up. Can barely hear signals with it, but they are there.

I recall some folks removing a resistor to completely unmute the receiver so it could hear.

Was that R4 or R5? Or something else?

The TX is working, and looks like about 200 mW on my WM-2. Need to see if I can whomp that up a bit.

73, Bob N6WG

Date: Sun, 27 Aug 2000 21:59:38 -0600
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [78236] QSOed N7XJ/p
Message-ID: <02ec01c010a4\$63d5a280\$d208710f@sg2939h.col.hp.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Had a short Q w/Bob N7XJ/6 tonight on 7040 0330utc horrific QRN but his 2w to a dipole @30' pumped right thru it most of the time til I lost em or he lost me?? Anyway it was a kick to know thoses guys Bob and Alan/K7GT are out there under the stars banging out a signal w/minimal gear while back packing in noth central California. FUN stuff QRP/p! Thanks Bob! de N0TU steve

Date: Sun, 27 Aug 2000 20:59:21 -0700
From: Thomas Kuehl <ac7a@gci-net.com>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78237] Re: Neat Dipole
Message-ID: <39A9E399.29AB484D@gci-net.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am curious if anyone knows any history about W4RJW's patented, stub-decoupled dipole shown on the g3ycc web site? The concept of stub decoupling is not new and has been used with commercial antennas as well. I have in my possession, probably the one Hy-gain, Hy-Tower Junior (18JR-197), still in existence. It is a stub-decoupled vertical for 80 through 10 meters, and I believe that it was offered sometime around 1960. This design used a center mast with horizontal arms that supported wire elements for 40 through 10 meters and also the decoupling stubs. The antenna structure and wires provides enough capacitive loading to attain resonance on 80 meters. The total height of the antenna is just about 40 feet and looks very much like a ship's mast with some rigging. If I am not mistaken the much more common Hy-Tower antenna, the tower version, also uses decoupling stubs to isolate sections of the overall antenna.

Regards, Thomas - AC7A (Tucson)

ARDUJENSKI@aol.com wrote:

> Lay your peepers on this website for an interesting twist on multiband dipoles
> <http://www.g3ycc.karoo.net/lattin.htm>
>
> Alan KB7MBI

Date: Sun, 27 Aug 2000 23:10:30 -0700
From: Adrian Weiss <aweiss@usd.edu>
To: qrp-l@lehigh.edu
Subject: [78238] RE: 30m HOT -- T77C & 6Z4DHI!
Message-ID: <39AA0256.6DC9@usd.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wow -- sitting here e-mailing stuff and up comes 6Z4DHI -- 1st call,
he worked about 3 and then QRT'd

15 mins later, T77C tuning up -- 1st call, his 1st QSO and he
had to dig out my 449. But "cfm" for #128 or something!

Just judging from what has been happening on 30m for the past two
weeks, DX is going to improve considerably as we approach the
autumnal equinox! It was nothing like this last August!

So ... join the other QRP'rs already harvesting some good stuff on
30m!

72, Ade

Date: Mon, 28 Aug 2000 04:58:38 GMT
From: "Tom Dufresne" <tdufres@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [78239] QRP prob with filter
Message-ID: <F167CFj2AhGwEUJlWZ000000527@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Howdy:

Why would my voltage drop off from 80v RMS to 12v RMS going thru a chebychev
(sp) filter? Three torroid coils, two 150 pF caps. Seems like an awful lot
of signal attenuation.... Ideas?

Tom

(yes I'm still trying to get this rig on the air!)

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Share information about yourself, create your own public profile at
<http://profiles.msn.com>.

Date: Mon, 28 Aug 2000 00:09:36 -0500
From: "George , W5YR" <w5yr@att.net>
To: tdufres@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78240] Re: QRP prob with filter
Message-ID: <39A9F410.3E3D3D86@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

What "my voltage" are you asking about? Where measured at what point in
what circuit? Etc.? Frequency? How measured?

Lots more questions than you have, it would seem! <:}

72/73, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556
(12/99)

Tom Dufresne wrote:

>
> Howdy:
> Why would my voltage drop off from 80v RMS to 12v RMS going thru a chebychev
> (sp) filter? Three torroid coils, two 150 pF caps. Seems like an awful lot
> of signal attenuation.... Ideas?
> Tom
> (yes I'm still trying to get this rig on the air!)

Date: Sun, 27 Aug 2000 23:16:40 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu
Subject: [78241] FOX: Emergency Pelt in CO
Message-ID: <39A9A158.12147.778F5E@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Like Lew, I had to had to resort to "Break Glass in Case of Emergency" to work Ben this afternoon. I heard his first call and then everything went black. Literally. My shack is in the basement and the power went out, leaving me sitting in the dark and wondering whether I'd just had a stroke.

It took me 20 minutes to go around and shut stuff off in expectation that it would come back on several times at 1 or 2 second intervals, which is usually the way it works. And I had to open the garage door manually for the XYL. Dashed back down to the shack, switched over to battery, double checked where Ben was and what he was doing, and then bang-- one shot. BIG signal into (CO with the beam pointed this way anyhow). Checked when the lights came back and found I had been running 3W with the OHR500 on battery, so fairly pleased.

Nice job, Ben, under trying circumstances!

The power had been off for almost exactly an hour and a half (and I'd got tired of looking for CQC QSO Party contacts) when I decided to call them and see if there was any news as to when power might be restored. Discovered a couple of things while I was at it. 1, they are no longer Public Service Company of Colorado (located in Texas) but have changed their name to Excel Power. I suspect this has something to with the lack of Service, and the resemblance to Excel the spreadsheet, which is notoriously buggy. 2) I definitely had the magic touch today and a one shot fox pelt wasn't just a fluke. At about the two minute point in their voicemail menu system where they ask you to Press 1 to report a power outage in your area, I pressed 1 and INSTANTLY the power came back on. I decided to go out and by a Lotto ticket but came within an inch of crashing into the garage door which was still disconnected.

Marshall Emm, N1FN
Milestone Technologies, Inc.
(303) 752-3382
<http://www.mtechnologies.com>

Date: Mon, 28 Aug 2000 06:29:16 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: k7sz@epix.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [78242] Re: OT - QRP ops and Submarines
Message-ID: <39AA3EFC.7FFC@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rich,

Don't forget our friend Paul Harden. A submariner from way back.

73

Date: Mon, 28 Aug 2000 08:06:05 -0400
From: "Brian" <brian@iquest.net>
To: <BenNW7DX@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78243] Re: Fox- NW7DX Reports on the hunt
Message-ID: <001301c010e8\$579985b0\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I could hear you just every once in awhile in Central Indiana.

Tried for about an hour, then you were gone, although I could still hear a few hunters.

With about 20 mins to go, I heard Mac in there but I could not hear you.

Maybe next time!

----- Original Message -----

From: <BenNW7DX@aol.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Sunday, August 27, 2000 9:09 PM
Subject: Fox- NW7DX Reports on the hunt

> Wow - What a wonderful way to spend a Sunday afternoon! I would like
to
> thank everyone for stopping by and giving me a call. The rush of having
20+
> stations calling at the same time is an Awesome feeling! It is always fun
to
> crank up the keyer and crank out those QSO's. (I hope I didn't get too
> carried away with the cw at the begining). I was surprised though, that
the
> pile up was conquered so fast. After only 30 minutes, I was in the
"begging
> mode". This lasted pretty much throughout the whole hunt, and it usually
> took a few calls to stir things up.
> Despite the lower-than-average conditions, there were some HUGE

signals

> that made it into the log. In fact, Doc K0EVZ even gave me a second call
> running only 100mw and he was a FB 569!! There were some times though,
where

> I knew there was a station down in the noise, but even after putting the
> narrow filter in, adjusting the DSP (the FT-920's DSP worked really
nicely)

> and crunching my earphones to my ears, I just could not copy. Sorry if
you

> didn't make it into the log.

> Well, all in all, I think I did a pretty good job. Ok, here's what
> you've all been waiting for... the first draft of the log! Hopefully all
of

> the columns won't be screwed up in the e-mail.

Date: Mon, 28 Aug 2000 08:32:29 -0400

From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [78244] RE: CQC QSO Party This Sunday

Message-ID: <125490A005E3D3118C9C00805FC743CCB2C3A1@mail.arrl.org>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

> >Date/Time: Sunday, August 20, 1999 1800 UTC to 2359 UTC

> Am I having a senior moment? Wasn't this last Sunday?

I must be getting really senior; wasn't it last year? :-)

I am sure that he will repost the correct dates (I am slogging through
emails this AM after my trip to WV), but I just couldn't resist.

73,

Ed Hare, W1RFI

> -----Original Message-----

> From: Larry Wise [mailto:lewise@txwises.com]

> Sent: Wednesday, August 23, 2000 10:43 PM

> To: Low Power Amateur Radio Discussion

> Subject: Re: CQC QSO Party This Sunday

>

>

> Am I having a senior moment? Wasn't this last Sunday?

>
> :-)
>
> Larry KA5T
> Georgetown, Texas
>
> On Wed, 23 Aug 2000 20:21:40 -0600, Marshall Emm wrote:
>
> >CQC Summer QSO Party
> >
> >The Colorado QRP Club announces the 2000 CQC Summer QSO
> >Party
> >
> >Date/Time: Sunday, August 20, 1999 1800 UTC to 2359 UTC
> >
> ...
>
>

Date: Mon, 28 Aug 2000 08:41:32 EDT
From: "Mark Adams" <k2qo@hotmail.com>
To: qrp-l@lehigh.edu, tentec@contesting.com
Subject: [78245] FS: Complete Argosy Station
Message-ID: <F104FTA70IkUqLpHkat00000a3a@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Gang,

I am hoping to buy a new 160-6M rig soon, so my nearly complete Argosy station is for sale. Electrically, it is all top notch! Cosmetically, it is all 9+. You will have a hard time finding a cleaner Argosy station anywhere. It is definitely in collectable condition.

Argosy model 525 (analog) serial number 04xx with:
226 calibrator
218 1.8 khz SSB filter
224 CW audio filter
225 matching power supply
234 matching RF speech processor
645 dual paddle keyer
unused mobile mounting bracket
DC cable with 1125 circuit breaker for battery operation
copies of all manuals (including internal options) except for the 645
original sales brochures

I'll only sell this as a complete station. The price for all of these goodies is \$450 including insured shipping and tracking #, etc.

Mark S. Adams, K2Q0 (ex-N2VPK)
The Buffalo QRP Connection

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Date: Mon, 28 Aug 2000 08:45:23 EDT
From: "Mark Adams" <k2qo@hotmail.com>
To: qrp-l@lehigh.edu, tentec@contesting.com
Subject: [78246] FS: TenTec 20-6M Transverter
Message-ID: <F119LAPDVXLuSbh29cM000003fc@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Gang,

I will be buying a new 160-6M rig soon and will not need my mint/near perfect TenTec Transverter. It is 100% electrically and 98% cosmetically (I replaced the power switch last year and the washer that goes under the shaft nut did not fit).

First \$85 takes it away and I pay shipping and insurance to the lower 48.

Mark S. Adams, K2Q0 (ex-N2VPK)
The Buffalo QRP Connection

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Date: Mon, 28 Aug 2000 08:12:31 -0500
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: <Cwkm@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78247] QRP-L Web Site (was: Re: QRP Tuner)

Message-ID: <03b701c010f2\$79f80000\$0200000a@mcg.net>

Hi,

Chris, NV1E wrote:

| Bob Kellog, AE4IC, has evaluated the performance a variety of commercial
| tuners. His results are posted on the QRP ARCI site under "QRP-L member
| articles."

Just a minor correction to the above post. Bob's article is on the "QRP-L"
web site <http://qrp.lehigh.edu/lists/qrp-l/index.html> . The QRP ARCI site
simply has a link to the QRP-L site. I thought I should mention this so there
was no confusion.

It's also a good opportunity to thank John Wagner for his fine work on the
QRP-L web site and Bob Kellog for contributing his article.

I'd also like to thank Jim Stafford (QRP ARCI webmaster) and Paul Valko for
supporting QRP-L with their respective web sites during the time ours has been
down.

Thanks again and 73 de Cla KA0GKC Manager QRP-L

Date: 28 Aug 2000 06:24:07 -0700
From: eric <k1nun@altavista.com>
To: qrp-l@Lehigh.EDU
Subject: [78248] FT-817
Message-ID: <20000828132407.28423.cpmata@c012.sfo.cp.net>
Content-Type: text/plain
Content-Disposition: inline
Mime-Version: 1.0

I saw the Yaesu FT-817 at the New England Boxboro Hamfest. Chip was carrying it on
a sling over his shoulder. Any of my daughter's college text books is larger. It
weighs less than those books too: about 2 pounds. When asked about the selling
price, he said a general rule of thumb (subject to many variations) is to take the
Japanese price, knock off a zero, divide by two, and add about a hundred. This
gives an approximate selling price in the US. So, 110,000 Yen might translate to
about \$700ish.

One feature not mentioned too widely is the display. A nice blue that can be
switched to a bright amber. The brightness of each color can be varied.

Although it was not connected to an antenna, the display did the appropriate things when the buttons were pushed.

I mentioned to Chip that the QRP crowd is already eagerly awaiting its arrival for sale and he said it should hit the US around October -- just in time for the holidays! Chip expressed (mock?) surprise that there is already interest in the rig. About four other people in the crowd confirmed there is great interest.

I saw it. I held it. I want it.

72,
ERIC
K1NUN

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<http://www.zdnet.com/downloads/altavista/index.html>

Date: Mon, 28 Aug 2000 09:37:40 -0400
From: Ronald_A_Pfeiffer@res.raytheon.com
To: qrp-1@Lehigh.EDU
Subject: [78249] FT-817
Message-ID: <85256949.004AD959.00@ressud-as01.res.ray.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

I also saw it at the Boxboro show and its real cute!!!. Has regular pl259 connector on the back. According to staffer the you can assign the front bnc or the rear for HF and it will remember what you sellected. Only downer is that the DSP is NOT in the FT817.

Ron - N1ZSW

Date: Mon, 28 Aug 2000 09:33:53 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: <norman_y@yahoo.com>

Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [78250] RE: HB - Need Meter Specs
Message-ID: <000901c010f4\$9c6b0d60\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Norman:

The only thing you need to do to effectively use your meter is determine its full-scale (FS) sensitivity, and perhaps its internal resistance (so you can use Ohm's Law to calculate any external shunt or multiplier resistor values). Measuring its internal resistance may not be necessary for your application.

In any case, the current is the same in all parts of a series circuit.

So, to determine FS sensitivity, you have to "drive" the meter to FS. To do that, put your unknown meter in a DC circuit with a pot in series, and put a DMM or VOM with a current scale, in series as well. Before you begin, use Ohm's law to figure the ballpark values you'll expect. That's important so that you don't overload your meter.

After doing that, adjust the source voltage and/or the series pot until your unknown meter movement reads FS, then simply read the known meter that's in series with it to see what the FS current value is.

To check internal resistance, you can use the simple two-pot circuit shown in the ARRL handbooks, or use a digital multimeter (DMM). Never, ever (!) use any other kind of ohmmeter to measure internal resistance. BTW: the two-pot method drives the unknown meter to FS, and then shunts half the FS current around it. Once that's done, you shut down the circuit and remove the second pot and then use your ohmmeter to measure the resistance that the second pot is set to, and that's equivalent to your meter's internal R. It's nifty.

If you use the two-pot method, be very, very careful that clip leads don't fall off or hook-up wires aren't properly in place, etc. or you run the risk of burning out the movement or bending the needle if too much current goes through the movement.

GL es 73, AI2Q, Alex in Kennebunk, Maine -- QRP-L #687

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Norman Young

Sent: Sunday, August 27, 2000 9:24 PM
To: Low Power Amateur Radio Discussion
Subject: HB - Need Meter Specs

Gang,

I want to build the QRP watt meter shown in the August, 2000 QST. I have gathered all the parts, except for the meter itself.

I have 3 G.E. meters that I picked up at a hamfest last year, and each has different scales, depending on their original use. All, however, are labeled "Type D0 91" and appear to be identical, so I assume that all have essentially the same specs. Although they are a little old, these are high quality meters, and I'd like to use one of them for the watt meter.

Now I know I can cobble together a test circuit to see if these meters are the 100 uA or 200 uA called for, but before I do all that, I wonder if anyone out there is familiar with these meters or knows where I can get the specs.

Any help will be greatly appreciated by me, and the rest of the list will probably appreciate it if you reply directly to me.

Thanks & 72,
Norman
KA4PUV

Do You Yahoo!?
Yahoo! Mail - Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Fri, 25 Aug 2000 16:33:56 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>
Subject: [78251] Contest: Bubba K7RE Results
Message-ID: <39A70264.7DE758C9@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Contest: BUBBA 2000

Category:_____N/A_____ Mode:_CW__ Power: 5 W

Callsign of Operator: K7RE

If multi-operator, show calls of all operators and loggers:

Exchanged Information: K7RE RST AZ Brian Temperature F

Hours of Operation:____4_____ Hours.

Band	QSOs	Points	Mult's
160	0	0	0
80	0	0	0
40	1	1	1
20	23	23	14
15	2	2	2
10	0	0	0
Totals	26	26	17

Location Code = 2; TX Power Code = 1;

Highest Temperature Reached = 82 , Multiplier = 82;

Total Score: 72488 Points

Comments: Operated portable at 7000 feet with nice low temperatures, just to give evryone else a chance to outscore me ;). Joking aside, propagation conditions were really lousy. The scenery and company were wonderful.

Always the greatest fun to get out and do some field opearating. Always a great pleasure to QSO Jim, AL7FS.

Tried to work some on more than 1 band, but no go.

Spent a lot of time CQing on 15, and even 10M, no go.

Thanks to all who participated.

Rig: K-2, 5W, solar powered w/HB regulator, 66' Wire vertical base fed.

Brian K7RE

Date: Mon, 28 Aug 2000 11:30:28 -0400 (EDT)

From: JOHN FISHER <ve7fdg@mad.scientist.com>

To: Low Discussion <grp-l@Lehigh.EDU>

Subject: [78252] TT2

Message-ID: <383351402.967476700912.JavaMail.root@web443-mc.mail.com>

Mime-Version: 1.0

Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Steve ve7sl heard you on 40 at 4:11 utc aug 28. Ve6cgo was 5X7 and you were 5X3. My antenna is mostly north south so you are off the ends. Nice signal otherwise. I am going to order a TT2 soon. I also came across an article that had a transmitter with 4 2n2222s as an amplifier fed by a transmitter similar to the TT2, about 2 watts out. I will try to dredge it up and post the magazine issue. 73
ve7fdg@mad.scientist.com
2137 duggan rd
nanaimo bc V9S 5N9
canada

FREE Personalized Email at Mail.com
Sign up at <http://www.mail.com/?sr=signup>

Date: Mon, 28 Aug 2000 08:27:00 -0700
From: Elliott Lawrence <edl@pacbell.net>
To: sdpadilla@attglobal.net, norm4sc@aol.com, mnt@worldnet.att.net,
lenholness@aol.com, qrp-1@Lehigh.EDU, N6MU1@aol.com, jmpadilla@attglobal.net,
pomerez@pacbell.net
Subject: [78253] FYI
Message-ID: <39AA84C4.6FA8@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Let's see how long it takes for them to get it straight!!!
Elliott

Stephen.Lawrence@HSC.com wrote:

>
> Benefits and Our Transition to Boeing Satellite Systems
> We'll Help You Through It?.
>
> The transition of Hughes satellite businesses to Boeing Satellite Systems,
> Inc. (BSS) and the anticipated timing of the close of the sale bring about
> some particular challenges for health benefits, which will also transition
> to BSS. While your health benefits will remain substantially unchanged from
> what you are offered today, the potential close date comes very close to
> the annual enrollment window ? your yearly opportunity to review your plans
> and make any desired changes for next year. We have to prepare now by
> splitting the data bases for employees (and former employees) we anticipate
> will go to BSS from those who will remain at Hughes. This split enables you
> to make annual enrollment changes to your current Hughes health benefits

> this fall and will capture any changes you make in the data that transfers
> over to BSS. Your changes can then take effect as they should on January 1,
> 2001.

>

> Here is the challenge. The records that indicate employee or former
> employee eligibility and coverage for our benefit carriers will go through
> three stages. One, for your current status with Hughes; two, as Hughes
> transitioning to BSS at close; and three, as BSS. What kinds of challenges
> does this present?

>

> - Communications Will Say "SPECTRUM" - Your benefit communications from
> Fidelity also need a transition "identity" for that period when we need to
> set you up as a separate group from the remaining Hughes to give you the
> proper annual enrollment period this fall. Your communications will say
> "SPECTRUM" from September 5, 2000, until the end of the year.

> - Use New BSS SPECTRUM Number - We need to establish a separate way for
> you to reach SPECTRUM so that you receive the right information during the
> transition. From September 5th forward, contact the SPECTRUM Service Center
> at 1-877-208-0780 for general information or assistance. (You'll have a
> different number to call to make your actual annual enrollment changes and
> will receive special annual enrollment communications.)

> - If You Need to Verify Eligibility - Your employee records affecting
> benefits flow from the company through Fidelity to the carriers who deliver
> your benefits care and services. Though we don't anticipate major problems,
> it is possible that the eligibility files will take some time to catch up
> with the transition phases. If you have any eligibility problems as you
> schedule or receive care, you or the provider should immediately call the
> SPECTRUM Service Center at 1-877-208-0780. (See note on the next page.)
> SPECTRUM can verify your coverage. If you're going after hours, try to
> contact SPECTRUM beforehand during business hours to check your status.

> - One Card Too Many? - It is possible that you could receive I.D. cards
> for your medical or dental coverage if the carrier's transition files
> cannot suppress them as you come into a "new" status. (The computers may
> see this as a change, which would normally generate a new card.) Don't
> panic! Either card will work.

> - Inactive Employee Coupon Books ? If you are a former employee or
> retiree who pays benefit payments by coupon, continue to use your Hughes
> coupon books until the end of the year.

>

> KEEP THIS PAGE HANDY?.

>

> You may want to keep this note to show to your health care providers if
> issues of eligibility or coverage arise as their records catch up to your
> transitioning status:

>

> (Embedded image moved to file: pic00120.pcx)

>

>

>
> Name: pic00120.pcx
> Part 1.2 Type: zz-application/zz-winassoc-pcx
> Encoding: base64
> Description: Paintbrush

Date: Mon, 28 Aug 2000 09:46:45 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>
Subject: [78254] NC20 AFA Xtal revisited
Message-ID: <026f01c01107\$2d87ed60\$088611d8@zephyr>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks:

Strange doin's here. A few day ago I posted about the
problem/resolution of the AFA in my NorCal 20.

Everything has been fine until now, the AFA quit again, so I thought.
This time I dug into my bag of tricks from my old TV repair days, and
gave the XTAL a tap with my screw driver. The AFA began working again.
To make a long story short I discovered that if the rig was cold
(switched off for several minutes) the AFA did not work on power up,
but does work after the rig has been turned on for a minute or two.

Now recall that I did the XTAL mod, 100K ohm R in series with the
XTAL. Is 100K too much resistance maybe? Before dropping the R value
down I thought I should get a little feedback/advice from the list
guru's on the matter. Ideas?

72/3 Rod, N0RC -- Fort Collins, CO

Date: Mon, 28 Aug 2000 08:47:19 -0700
From: "Floyd Smithberg" <flydnq7x@primenet.com>
To: "QRP-L Message" <qrp-l@Lehigh.edu>
Subject: [78255] BUBBA-NQ7RP
Message-ID: <003b01c01107\$5632fffc0\$71ad30d0@primenet.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Conditions=yukkh. But I was sure much more comfortable than NK7M at 111
F...Worked N4BP on 3 bands and N5IN & W3ERU on two bands. Never heard AK or
PAN but got them both in CQC...another fun but tough test.
Totals: 30Qs.....20Mults.....70Heat = 42,000points
Thanks to all, hope you're all SURVIVORS.
Floyd NQ7X Phoenix,AZ ScQRPion DM33uq

Date: Mon, 28 Aug 2000 11:57:33 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [78256] Re: NC20 AFA Xtal revisited
Message-ID: <001901c01108\$b29a4880\$2d0a05cc@rochester.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

> Everything has been fine until now, the AFA quit again, so I thought.
> This time I dug into my bag of tricks from my old TV repair days, and
> gave the XTAL a tap with my screw driver. The AFA began working again.
> To make a long story short I discovered that if the rig was cold
> (switched off for several minutes) the AFA did not work on power up,
> but does work after the rig has been turned on for a minute or two.
>
> Now recall that I did the XTAL mod, 100K ohm R in series with the
> XTAL. Is 100K too much resistance maybe? Before dropping the R value
> down I thought I should get a little feedback/advice from the list
> guru's on the matter. Ideas?

Rod,

I worked with a guy who was an engineer for a power company. He said he was
in a substation once that had an old microwave transmitter, and the cover
was missing. Inside was a clock motor with a disk attached to the shaft, and
a small metal bar attached loosely to the edge of the disk. The end of the
bar was covered with an add-on pencil eraser. In other words, a small trip
hammer with a 12-hour cycle. Under the trip hammer was a crystal.

The technician accompanying the engineer on that visit explained that the
transmitter quit working occasionally, and somebody noticed that if they
tapped the crystal with a pencil it would start working. So they installed

an automatic crystal taper. Transmitter worked fine after that.

Just thought I'd offer the option.

Dave

Date: Mon, 28 Aug 2000 11:52:04 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [78257] Re: Low Noise Op Amps
Message-ID: <125490A005E3D3118C9C00805FC743CC8D9BFB@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

There is another factor, the impedance of the circuit. This can be a factor with low Z circuits, such as diode ring mixer outputs. I'd suggest reading Horowitz and Hill's Art of Electronics. Zack W1VT

Date: Mon, 28 Aug 2000 09:02:56 -0700
From: Elliott Lawrence <edl@pacbell.net>
To: qrp-1@Lehigh.EDU
Subject: [78258] Re: FYI
Message-ID: <39AA8D30.45F6@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Elliott Lawrence wrote:

Sorry guys clicked on the wrong address...please ignore!!
Elliott WA6TLA

Date: Mon, 28 Aug 2000 13:01:14 -0400
From: "Lau, Zack, W1VT" <z1au@arrl.org>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [78259] Smallest antenna used to set KM/watt Record?
Message-ID: <125490A005E3D3118C9C00805FC743CC8D9BFD@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Has anyone experimented with using tiny antennas to qualify for the
ARCI KM/watt award? I used a little 5x6x7 inch horn to set the
5760 MHz record. I should have brought a 30 dB attenuator--my
155uW SSB signal was actually 58! (from Mt Wachusett to Woburn
MA, 36 miles).--Zack W1VT

Date: Fri, 25 Aug 2000 18:33:24 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>
Subject: [78260] Contest: CQC QSO Party Results - K7RE
Message-ID: <39A71E64.9B1A77D9@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Contest: CQC QSO Party 2000

Category:_____Portable_____ Mode:__CW_ Power: 5 W

Callsign of Operator: K7RE

CQC Member Number: 438

Exchanged Information: K7RE RST AZ BRIAN Nr 438

Please note: Portable Category

Hours of Operation:_____6_ Hours.

Please see enclosed work sheets for breakdowns.

Total QSO Points: 171

Total SPC Multipliers: 25

Total Unique first letter in Names: 16

Total claimed score: 171 X 25 X 16 = 68,400

Comments: The XYL (KD7GLY) and myself decided to set up at the 7000 foot level on the AZ Mogiollon Rim. Despite a flat tire on the motor home, we arrived late Friday night, set up the next morning for the BUBBA event and had a blast. The Propagation was not good on Saturday, but much improved on Sunday for the CQC event.

It was great to be able to work Cam, HP1AC, on both 15 and 10M. Also, Jim, AL7FS was there as well, much stronger than in the BUBBA event the previous day.

Rig: K-2, 5W, 66 ' wire vertical, KD1JV LCD keyer.

Thanks again to the CQC for sponsoring this event, and to each of the participants.

Date: Mon, 28 Aug 2000 13:18:01 -0400
From: hattonte@gdls.com
To: qrp-1@Lehigh.EDU
Subject: [78261] SMK-1
Message-ID: <0F1CABA2A6.040491B9-0N85256949.005E886D@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

For those of us who built the Norcal SMK-1 (wow, what a toughie!) I just read that a company in PA is offering resistors in a 01-005 package. These are about a tenth the size of the ones we wrestled with. Norcal, don't start getting ideas now... Dick Tracey wristwatch Xcvr for 40 meters anyone?

Terry
W1QF

Date: Mon, 28 Aug 2000 13:17:04 -0400
From: ekwik@rtimail.com
To: n0rc@qsl.net, qrp-1@Lehigh.EDU
Subject: [78262] Re: NC20 AFA Xtal revisited
Message-ID: <0FEE9A4A98.7A15F748-0N85256949.005E81F0@rtimail.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

My AFA is intermittent. My problem is a cheap RS IC socket that has developed a couple of loose contacts. Gotta change it out on of these days but I use the NC20 a lot so I keep nursing it along.

Ed AB8DF

Date: 26 Aug 2000 13:31:57 -0400
From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
To: henryf@quartz.gly.fsu.edu
Cc: qrp-1;;
Subject: [78263] Re: Low Noise Op Amps
Message-ID: <2000Aug26.133157-0400@[130.113.234.7]>

nv/rt(Hz).....nanovolt per root hertz.

This is a measure of root-mean-square noise amplitude that would be present AT THE INPUT of an op-amp. It is normalized to a bandwidth of one hertz, so that noise can be spec'd at various frequencies (most devices put out more noise at low audio frequencies).

There is a companion current noise measurement usually spec'd as pa/rt(Hz) that tells a similar story of current noise.

A low voltage noise is most important where low source impedances drive an amplifier. Similarly, low current noise is most important with high source impedance.

Let's say your op-amp is followed by an audio filter having a bandwidth of 500 Hertz. If you had a 4 nv/rt(Hz) op-amp, you'd have a minimum of $4 \times \sqrt{500}$ nanovolts x gain of op-amp at the output of the filter. Thermal noise voltage of all the resistors used to set the gain would contribute extra noise too.

A 100 ohm resistor, at room temperature generates 1.26 nv/rt(Hz)
A state-of-the-art op-amp generates about the same noise.

In <39A948DF.F9F448D6@quartz.gly.fsu.edu>, Henry Freedenberg wrote:
>I don't have much experience specing out op-amps. What does nV/rtHz
>mean? nanovolts per ?hertz? Guess the lower the number the better?

Date: Mon, 28 Aug 2000 12:04:31 -0700
From: David J Adams <david@theadamsclan.com>
To: QRP <qrp-1@lehigh.edu>
Subject: [78264] HF Rig for sale
Message-ID: <39AAB7BF.28AD1626@theadamsclan.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings! Before I start seriously trying to sell this, I thought I would offer it to the list. I can bring it to the Norcal meeting for any interested locals.

For Sale:

Kenwood TS-440SAT 160-10m GC receiver

Rig includes Medium (SSB) and narrow (CW) filters, hand mic, and an MC-60 desk mic. The first owner had the rig serviced twice by kenwood (I have the receipts) back in 1994 and 1995. These were to repair PLL and VFO problems. From the receipt it appears they did the pll mod common to this rig, replaced the TR relay, and installed a new front panel. I purchased the rig in ~'96 and have had no problems with it (aside from the time I turned the squelch all the way up without realizing it and couldn't figure out why I wasn't getting any received signal). I'm upgrading to a Ten Tec Jupiter and (being an apartment dweller) do not have the room to keep the Kenwood. The rig does not contain the optional voice of FM modules. AT works well, but does NOT tune 160 (as per the manual). Cosmetically, it is about average for a rig this age. Functionally, it is 100%, though in my opinion some of the front panel buttons are too sensitive (double clicks). I have the manual, service receipts and (probably) the original box for the transceiver. If you are interested email me. I believe about \$440 plus shipping.

73 de dave, n9uxu

Date: Mon, 28 Aug 2000 20:20:21 +0100
From: Euramcom <mel@euramcom.freemove.co.uk>
To: <qrp-1@lehigh.edu>
Subject: [78265] Query on US\$, OT ish
Message-ID: <E13TUdX-0000r0-00.2000-08-28-20-32-03@cmailg4.svr.pol.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi Gangue,

What is currently the smallest denomination \$ note please? There=
is
an ulterior devious motive for asking this question, ISTR that at=

one
time 1\$ notes were used for (sort of) nefarious purposes like
convincing some third world hams to send out QSL cards.

Thanks

Regards

Mel

--72 and 73 de Mel Evans, e-mail mel@euramcom.freeserve.co.uk

Mel Evans GM6JAG Edinburgh Scotland
Home of the last HW9

Visit <http://www.euramcom.freeserve.co.uk> for
US Euro Ham Radio Equivalent Parts and info,
Add-a-Link page let's you add your own pages instantly

Date: Mon, 28 Aug 2000 15:33:13 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [78266] N4BP CQC QSO Party
Message-ID: <Pine.3.89.10008281544.A13133-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
Content-Transfer-Encoding: QUOTED-PRINTABLE

2000 CQC SUMMER QSO PARTY

=20

Call used: N4BP	Location: FL
Category: Multi-Band	Mode: CW
Callsign of Operator: N4BP	Power: 5W

=20

Exchanged Information: N4BP RST FL BOB 5W

=20

Hours of Operation: 04:13

=20

	CW		=20
band	QSOs	=20	
=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4			=20
160	0	QSO points: 172	=20
80	0		=20
40	1	SPC mult: 60 (49 states, 2 VE, 9 DX)	
20	42	Names mult: 17	=20

around at the time. Anyway, this setup works very well on 15, 17, 20, 30 and 40m. It also works surprisingly well on 80m, and gives limited but useful performance on top band too. However, on 10 and 12m the performance is dire, and I'm confused as to why. I've checked the co-ax loss at this frequency using my MFJ-259B antenna analyser, and it shows around 3db loss. While that's not an insignificant figure, it's not *that* bad, which leads me to suspect the problem is something to do with the antenna itself. Can anyone enlighten me as to the kind of radiation angle I'll be getting from a near-enough full wave antenna on 10 or 12m? Or is there something more fundamental about using a full-wave vertical that I've overlooked? If the co-ax and antenna are OK, I can only think that the SG-230 is at fault - yet it happily matches the antenna on 10 and 12m with no problems at all. Interestingly, I get better performance on 10m from my attic dipole for 30m, via the radio's internal ATU.

Any comments, help or advice greatly appreciated.

Cheers & 73

Mike
M0CQG

Date: Mon, 28 Aug 2000 12:48:24 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <bkassel@dancris.com>, <qrp-l@lehigh.edu>
Subject: [78268] Re: Contest: CQC QSO Party Results - K7RE
Message-ID: <01c01128\$edebee00\$330b0d0a@dhendricks>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Brian, you had a great signal into central California. I ran over to see Dave Fifield Saturday, he is laying out the new NorCal Transceiver that Dan Tayloe had at Ft. Tuthill, and we were discussing some options. (We decided to add an audio frequency counter/keyer combo chip, and have a guy working on just such an animal right now. Plus, we are going to have a painted, silkscreened case, the color will be NorCal Gold, to match all of those t-shirts that we all have, grin.) But I digress. Dave also helped me set up my Vern Wright PW-1 antenna

<http://www.superantennas.com/>

on a mag mount in the back of my truck. On the way home, you had a booming

signal, I copied you for about 25 minutes straight on my Icom 706 Mark II G. Didn't have a key or paddle or I would have given you a call. I am sure that I could have worked you.

Sunday, Mike Camp gave me a call and we agreed to meet at Westley on I-5 so that Mike could deliver 100 SMK-1 bag #1 and bag #2s. I was so excited to hear that they were done early that again, I forgot to put a set of paddles in the truck. But I did listen to you, and wow, even a better signal on Sunday. I copied you for over an hour, and guys, Brian Kassel is one fine operator. He was running stations right and left, doing it very efficiently, and I was impressed with his skill as an operator. Sorry Brian that I forgot the paddles. You were 579 from KI6DS/Mobile.

Anyway, great job. Wanted to let you know that you had a great signal into central California. 72, Doug

Date: Mon, 28 Aug 2000 13:08:22 -0700
From: Jeff Grudin <grudin@vdbbs.com>
To: qrp-1@lehigh.edu
Subject: [78269] K1 Completed and first QSO down!
Message-ID: <39AAC6B6.F7F1B8D8@vdbbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well for those of you interested, I completed the K1 yesterday afternoon. I think it took about 12 hours, but I have to go back and add up the times. It was a success. Really easy to build and operate.

It has been confiscated by the manufacturer for a few days of testing, so I haven't gotten to thoroughly play with it yet. The interface is very similar to the K2 with many similar functions. So it should be a fun little rig to use.

Only draws about 50mA on RCV. So should be pretty battery friendly.

I'll keep you guys posted. This looks like another winner from Elecraft.

--
73 de AC6KW <mailto:grudin@vdbbs.com>
Jeff Grudin, DVM Web Add: <http://www.vdbbs.com/~grudin>
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Mon, 28 Aug 2000 12:57:39 -0700
From: "Coote, Jay" <JCoote@ci.arcadia.ca.us>
To: "'m0cqg@dial.pipex.com'" <m0cqg@dial.pipex.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78270] RE: Antenna problem
Message-ID: <131CE266CAD0D211B3550008C7C9A2D51CBD11@arcadia-pd1.arcadiapd.com>
MIME-Version: 1.0
Content-Type: text/plain

(Original Post Below)

Based on your antenna length, I would like to suggest it is the pattern of the antenna. The antenna may be electrically "long" for 12 or 10 M. If you look at the literature on longwires, you may find that your antenna's major and minor lobes are at too-high angles to be helpful on these DX bands.

You might use a vertical wire which is 5/8 wavelength on 10M, that's around 20-21 feet? And you might find better results on 10-12-15M. The shorter length might harm your antenna efficiency below 7 Mhz however. I've used a 21-foot vertical plus radials on ground and roof mount with an outdoor ATU.

One other radical idea might be to suspend a 42 foot vertical wire antenna as high as possible and center-feed that with ladder or twin and your ATU. This would be like elevating the 21 foot vertical and radials described above, and ought to work well on 10-12-15-17-20.

You might look at your radials. You may not need a large ground rod as much as you need plenty of radials in a groundmount antenna. The radials should not be buried deeper than an inch or so.

My opinion....

73
Jay
W6CJ

-----Original Message-----
From: M0CQG [mailto:m0cqg@dial.pipex.com]
Sent: Monday, August 28, 2000 12:34 PM
To: Low Power Amateur Radio Discussion
Subject: OT: Antenna problem

Hi all - apologies for the OT post, but I wonder if anyone can help...

My main HF antenna, currently, is a vertical wire approximately 10 - 11m in length, suspended from a tree at the bottom of the garden. This is fed direct from an SGC SG-230 auto antenna coupler, with ground radials connected to the earth point. The SG-230 is mounted about six inches above the ground and is connected to my transceiver via a 100' run of mil-spec RG-58CU co-ax - not the best choice, I know, but it's what I had lying around at the time. Anyway, this setup works very well on 15, 17, 20, 30 and 40m. It also works surprisingly well on 80m, and gives limited but useful performance on top band too. However, on 10 and 12m the performance is dire, and I'm confused as to why. I've checked the co-ax loss at this frequency using my MFJ-259B antenna analyser, and it shows around 3db loss. While that's not an insignificant figure, it's not *that* bad, which leads me to suspect the problem is something to do with the antenna itself. Can anyone enlighten me as to the kind of radiation angle I'll be getting from a near-enough full wave antenna on 10 or 12m? Or is there something more fundamental about using a full-wave vertical that I've overlooked? If the co-ax and antenna are OK, I can only think that the SG-230 is at fault - yet it happily matches the antenna on 10 and 12m with no problems at all. Interestingly, I get better performance on 10m from my attic dipole for 30m, via the radio's internal ATU.

Any comments, help or advice greatly appreciated.

Cheers & 73

Mike
M0CQG

Date: Mon, 28 Aug 2000 13:14:19 -0700
From: "Floyd Smithberg" <flydnq7x@primenet.com>

To: "QRP-L Message" <qrp-l@Lehigh.edu>
Subject: [78271] CQC Test NQ7X
Message-ID: <004801c0112c\$d42c9a60\$3fac30d0@primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well condx were some better than for BUBBA....got AK and PAN. Worked N4BP on three bands again, tnx Bob. Only ~ 3 hours op time and most of the Qs made in

the first hour (19). Total Qs = 41.

QSO	Points	Mults	Names	
196	x	26	x	13 = 66,248 points

Tnx CQC and all who played.

Used: TS850, 3 el YAGI at 40+ ft., TR 652 with data base of 780 QRP ops to say Hi <name>.

Floyd NQ7X Phoenix,AZ ScQRPion DM33uq

Date: Mon, 28 Aug 2000 16:22:29 -0400
From: "steve" <sblary@bellsouth.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [78272] ANT- Gap Challenger in the wind
Message-ID: <000601c0112d\$b1327b50\$7464a8c0@AREA51>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Got my Gap Challenger installed (thanks to Alan and the list for tilt base suggestions!) and noticed a lot of movement in the wind! I have 3 guy ropes located just above (2") the center "gap feed" as the manual suggests and they are loose as the manual suggests too. Had a few small storms late yesterday and the winds picked up. The antenna moved around quite alot and especially from the Gap feed point up. I'm concerned that the pvc (or whatever it is) coupler that connects the top 16 feet of the antenna to the bottom half is not strong enough. I don't think it is strong enough to handle 25 mph much less 80 mph even with the guys.

any one have any thoughts or suggestions?

Other than that I'm pleased with the antenna!

thanks!

Steve KD4LIV

Date: Mon, 28 Aug 2000 21:30:11 +0100
From: "Merryprankster@cwcom.net" <merryprankster@cwcom.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [78273] Diode Question
Message-ID: <024d01c0112e\$c4c18ac0\$72032cc3@houseqrx7neuap>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello chaps, Bob here.

A Diode Question folks..

How does one match a pair of diodes?

I have a schematic of a meter that I want to make / build and it requires a pair of matched diodes.

Do I measure and compare what ? The resistance or capacitance?

Date: Mon, 28 Aug 2000 16:44:16 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <merryprankster@cwcom.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78274] Re: Diode Question
Message-ID: <00cc01c01131\$3a877740\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmm, you may get a more 'technical' answer, but the first thing is I would match their breakover point for forward conduction. I suppose if it really mattered, I would use a curve tracer and match curves.

Mike

> Hello chaps, Bob here.
>
> A Diode Question folks..
>
> How does one match a pair of diodes?
>
> I have a schematic of a meter that I want to make / build and it requires
a
> pair of matched diodes.
>
> Do I measure and compare what ? The resistance or capacitance?
>
>
>

Date: Mon, 28 Aug 2000 13:57:47 -0700
From: "Damon S Raphael, MD (w7md)" <w7md@azstarnet.com>
To: qrp-l@lehigh.edu
Subject: [78275] K2 Nabs Fox Pelt at Bris
Message-ID: <39AAD24B.6CBD40E@azstarnet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

N7DD (Larry Pace) world record QRO contest op became a grandpa to a new baby boy last week. I was invited to attend the bris (ritual circumcision) party. Since the time frame conflicted with the Foxhunt, I had to do some planning.

I packed up my K2 with the Samlex PS, WM-2 QRP Wattmeter, 2 coax cables and my Bencher BY-1 "exploding" key and took off (with XYL) for Larry's QTH. I arrived with the gear looking like I was bringing special gifts. Larry's wife, Patti, also a ham, met me at the door and knew immediately what the gear was for.

Larry disconnected his coax end and handed it to me plus a traditional new grandpa cigar. The only thing missing was a barrel connector which Larry provided.

As I was setting up the rig, Donnie Andersen, W7DD (prev KV7S) arrived and was very interested in the K2. He is one of the major players in 80 meter DX from the western US and had his cover on CQ magazine last year. He is not likely to go QRP but did win the CQ WPX Contest in the 80 meter low power class a few years ago. When I got the K2 playing, he had to sit down and twiddle the knobs and put on the headphones, etc.

Larry's (N7DD) antenna for 20 meters is a killer. It is a 15-20 meter interlaced beam on a 49 foot boom with separate feedlines and gamma matches on each band. It was home brewed by him and is unsurpassed except by extreme boom length antennas and phased or stacked multiple beams. The antenna, on a 70' Tri-EX Skyedle was nested but I knew it would make no diff to WA. Hi angle radiation would probably be an advantage. Pretty nice setup for me having lost my own big 20 meter antenna last month.

I set the output on the WM-2 to 5 watts, pointed the antenna to Redmond, and listened but no NW7DX. After a while I heard folks calling him and then for a brief period a barely copyable CQ FOX then nothing. I realized that he was probably pointing his big yagi east so I went out to have a beer and smoke that cigar.

About 25 minutes later I returned and there was the Fox loud and clear. I worked him on the first call but my "exploding" key exploded when I reached the serial # so I had to replace the "dit" arm and completed the contact successfully to the satisfaction of myself and the QRO guys present. I also managed to get it done before the monsoon clouds closed in and it started to rain with thunder & lightning.

So fun, 73,

Damon W7MD,

Tucson, AZ

Date: Mon, 28 Aug 2000 17:01:33 -0400
From: "Russ Hines" <radioruss@fuse.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78276] OT: ARD
Message-ID: <000901c01133\$284097e0\$242044d8@rbhines>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just called ARRL regarding their Radio Designer software, and the young lady who answered the phone told me it was discontinued.

Anyone got a handle on this one? Kind of curious why. The young lady said she'll get back to me with an answer, but I thought I'd give a query here in the meantime.

W1RFI, any info??

Thanks.

73,
Russ
WB8ZCC

Date: Mon, 28 Aug 2000 17:13:27 -0400
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [78277] Re: Diode Question
Message-ID: <013201c01134\$d01543c0\$4d07b3d8@obvious>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> I would use a curve tracer and match curves.

Yep.....we've ALL got one of those.....<GRIN>

73,
Dick K2JQ

Date: Mon, 28 Aug 2000 17:10:56 -0400
From: Luke Stras <stras@ecf.toronto.edu>
To: qrp-l@lehigh.edu
Subject: [78278] Antenna G/T
Message-ID: <20000828171056.D16243@arrow.utias.utoronto.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Can anyone tell me how one would go about calculating the G/T ratio for an antenna, give the antenna's gain, sky temperature, and ground temperature? My intuition tells me that this ought to be fairly simple, but my grasp of electromagnetics is a bit weak, so I can't quite figure out how to do this myself.

Thanks.

--

Luke Stras <stras@utias.toronto.edu>

"The meek can have the Earth; the rest of us have other plans"

--Henry Spencer

Date: Mon, 28 Aug 2000 15:12:14 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>

To: Euramcom <mel@euramcom.freeserve.co.uk>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [78279] Re: Query on US\$, 0T ish

Message-ID: <Pine.LNX.4.10.10008281506020.724-100000@cannac.ampr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Mel, The smallest is still the 100 cents 1 dollar bill with George Washington shown on the front side. As you might recall King George was irritated with George because he won the war. When you travel now outside the US you tip with the \$5.00 bill. This is necessary or the help gets grumpy.

You can get a \$1.00 coin now, but no-one is getting them because Americans don't like the coin. A bit like Europe and the Uro.

On Mon, 28 Aug 2000, Euramcom wrote:

>

>

>

> Hi Gangue,

>

> What is currently the smallest denomination \$ note please? There is
> an ulterior devious motive for asking this question, ISTR that at one
> time 1\$ notes were used for (sort of) nefarious purposes like
> convincing some third world hams to send out QSL cards.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Mon, 28 Aug 2000 16:15:43 -0500

From: Mike <mmorrow@companet.net>
To: baltimoremd@baltimoremd.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [78280] Re: OT - QRP ops and Submarines
Message-ID: <39AAD67F.442@companet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

baltimoremd@baltimoremd.com wrote:

> I'd be very interested in any recollections of members about radio
> operations aboard submarines.

Thom,

I served as a ship driver (Officer of the Deck, OOD) onboard a U.S. nuclear submarine 'til 1979. It would be EXTREMELY unlikely for any radio transmission FROM the submarine to EVER take place while on patrol. The only transmitter that got regular usage was the hand-held marine VHF-FM set we OODs used on channel 16 to contact the harbor captains, pilot boats, and tugs when coming into port or leaving it. This little hand-held's transmitter operated many many more times than all the rest of the transmitters onboard put together.

Modern submarine communication details are not likely to ever be publicly discussed. Was your question directed more to ham QRP ops from the various submarine memorials as special event stations?

On the other hand, I would have loved to have had a DSW or similar rig 25 years ago when ashore on liberty at some of the places we visited or operated from regularly.

73,

Mike / KK5F

Date: Mon, 28 Aug 2000 15:22:56 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Hendricks, Doug" <ki6ds@dpol.k12.ca.us>
Cc: QRP-L List <qrp-l@lehigh.edu>
Subject: [78281] Re: Contest: CQC QSO Party Results - K7RE
Message-ID: <Pine.LNX.4.10.10008281517090.724-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Doug, This is why I'm buying Hightower's CMOS II keyer. I want to have a full CW station (Kenwood TS-50 with CW filter) and CMOS keyer and MFJ paddles. When your making the milk run you leave the 20 meter Ham Stik on and the rig tuned up and on 20 cw. Then you weave in and out of traffic while tuning near 14.060 MHz...

On Mon, 28 Aug 2000, Hendricks, Doug wrote:

>

> on a mag mount in the back of my truck. On the way home, you had a booming
> signal, I copied you for about 25 minutes straight on my Icom 706 Mark II G.
> Didn't have a key or paddle or I would have given you a call. I am sure
> that I could have worked you.

>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Mon, 28 Aug 2000 16:21:24 -0500

From: "Cla KA0GKC" <ka0gkc@arrl.net>

To: <merryprankster@cwcom.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [78282] Re: Diode Question

Message-ID: <050101c01135\$f62da7e0\$0200000a@mcg.net>

----- Original Message -----

From: "Merryprankster@cwcom.net" <merryprankster@cwcom.net>

| How does one match a pair of diodes?

And now for even a less technical answer! For most amateur applications, power meters and balanced modulators etc, you set your DVM to the 2k Ohms scales or diode check position if you have one and match the smaller resistance between the same type of diodes. Usually you can find two that are very close to right on in a batch of ten. The resistance will vary depending on the meter you use so absolute values are not of much help. On my DVM I see about 200 ohms for a germanium diode and 500 ohms for a small signal silicon diode.

Hope this Helps,

73 de Cla KA0GKC

Date: Mon, 28 Aug 2000 17:29:46 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <k2jq@bestweb.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [78283] Re: Diode Question
Message-ID: <011901c01137\$43a47a20\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, a LOT of HAMs have these old 'Cathode Ray Oscillographs' and they are GREAT for doing that. All it takes is a transformer and a few resistors... In fact, one of the first 'tools' I ever build was an 'octopus'. This was a small box with a transformer in it to give ac, and it had V and H lines, and three lines you put to transistors (or just hook a diode to the base-emmitter lines) and it would give you a curve. Not a good quantitative curve, but a curve you could 'grease pencil' on the display and then try to match with another component....

Or be tricky, and trace with a pencil on paper, and then tape the component to the paper for the drawer...

Mike

> > I would use a curve tracer and match curves.
>
> Yep.....we've ALL got one of those.....<GRIN>
>
> 73,
> Dick K2JQ
>
>
>

Date: Mon, 28 Aug 2000 17:38:02 -0400
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [78284] Great Customer Service from Small Wonder Labs
Message-ID: <39AADBBA.F7751EEC@tampabay.rr.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just wanted to thank Dave NN1G for his great customer support.

I bought a DSW-20 kit off this list from the original owner. When the kit arrived 3 parts were missing. A quick note to Dave and he sent the parts right out.

Great support for a kit that is not in production and to someone not the original customer.

Thanks Dave. I will buy your stuff again.

73
Paul AJ4Y

Date: Mon, 28 Aug 2000 16:54:51 -0500
From: Mike <mmorrow@companet.net>
To: Manager QRP-L <manager@astro.cc.lehigh.edu>
Cc: qrp-l@lehigh.edu
Subject: [78285] Re: OT - QRP ops and Submarines
Message-ID: <39AADFAB.4338@companet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Manager QRP-L wrote:

> <snip> Please do not post OT replies to the list in the future <snip>

To all whom I offended by my reply to Thom on QRP and submarine ops (see the offensive message below), I apologize.

On the the other hand, I've had enough of the petty and unproductive intervention of a list sheriff. Those who remain must begin to wonder what will trip the trigger of this fellow's Colt list-revolver.

Don't bother kicking me off the list for my offensive post, "Cla." I've tried to give you some friendly advice in the past about why you've created so much ill-will. QRP-Cla is NOT for me. I'm out of here.

Mike / KK5F

----- Original Offensive Message By Me -----

I served as a ship driver (Officer of the Deck, OOD) onboard a U.S. nuclear submarine 'til 1979. It would be EXTREMELY unlikely for any radio transmission FROM the submarine to EVER take place while on patrol. The only transmitter that got regular usage was the hand-held marine VHF-FM set we OODs used on channel 16 to contact the harbor captains, pilot boats, and tugs when coming into port or leaving it. This little hand-held's transmitter operated many many more times than all the rest of the transmitters onboard put together.

Modern submarine communication details are not likely to ever be publicly discussed. Was your question directed more to ham QRP ops from the various submarine memorials as special event stations?

On the other hand, I would have loved to have had a DSW or similar rig 25 years ago when ashore on liberty at some of the places we visited or operated from regularly.

Date: Mon, 28 Aug 2000 14:51:25 -0700
From: Mike Gipe <mgipe@reliablemeters.com>
To: n0rc@qsl.net, "QRP-L list (E-mail)" <qrp-l@Lehigh.edu>
Subject: [78286] RE: NC20 AFA Xtal revisited
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A928EE9E@mission>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Might work better with 20K or so.

At these low powers, the oscillator can take a very, very long time to start with a high-Q crystal.

I played around with a similar oscillator a few years ago, and managed to put together a circuit that oscillated reliably at 32 kHz, but took around two minutes to start up. You could watch the oscillator start-up from noise to full power with an oscilloscope.

Mike K1MG

> -----Original Message-----
> From: Rod, N0RC [mailto:n0rc@qsl.net]
> Sent: Monday, August 28, 2000 8:47 AM

> To: Low Power Amateur Radio Discussion
 > Subject: NC20 AFA Xtal revisited
 >
 >
 > Folks:
 >
 > Strange doin's here. A few day ago I posted about the
 > ...
 > To make a long story short I discovered that if the rig was cold
 > (switched off for several minutes) the AFA did not work on power up,
 > but does work after the rig has been turned on for a minute or two.
 >
 >

 Date: Mon, 28 Aug 2000 18:03:26 -0400 (EDT)
 From: Bob Patten <n4bp@bc.seflin.org>
 To: QRP-L Reflector <qrp-l@lehigh.edu>
 Subject: [78287] Revised N4BP CQC
 Message-ID: <Pine.3.89.10008281825.A11120-01000000@bc.seflin.org>
 MIME-Version: 1.0
 Content-Type: TEXT/PLAIN; charset=US-ASCII
 Content-Transfer-Encoding: QUOTED-PRINTABLE

Dummy, left out QS0 points from one whole log page...

	CW		=20
band	QS0s		=20
=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4			=20
160	0	QS0 points: 172	=20
80	0		=20
40	1	SPC mult: 60 (49 states, 2 VE, 9 DX)	
20	42	Names mult: 17	=20
15	39		=20
10	6		=20
=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4			=
=20			
TOTAL	88	Score: 402 X 60 X 17 =3D 410,040 points	=20
=20			
=20			
=09	73,		
=09=09=09=09	, ' ' ' ,		
Bob Patten, N4BP		(0 0)	Plantation, FL=20
		o00o-()-o00	=

E-Mail: n4bp@bc.seflin.org

Web Page: <http://www.qsl.net/n4bp>

Brass Pounder BBS: (954) 472-7715

=20

=09=09=09 SOC #1=09Whiners #6

Date: Mon, 28 Aug 2000 17:07:47 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [78288] Re: Diode Question
Message-ID: <007d01c0113c\$6910ea00\$14004d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Bob and all. You need to measure both forward and reverse resistance. Now here is the catch. The resistance will depend particularly on the battery voltage of your ohmmeter. I suspect that you are building an SWR/wattmeter and if that is the case I'll bet the circuit includes a variable resistance following each diode. In that case it doesn't matter as the differences will be made up when you are calibrating it. Be sure to use the same type and number diode.

Mike Branca W3IRZ in Conyers Georgia

Date: Mon, 28 Aug 2000 18:26:12 EDT
From: DaveLeDuc@aol.com
To: qrp-l@lehigh.edu
Subject: [78289] FS: TenTec Century 21
Message-ID: <82.8948.26dc4104@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

TenTec Century 21 80-10 meter (includes optional crystals) CW transceiver with built in power supply. Around 25 watts output but runs nicely at QRP power. It is in excellent condition.
Includes manual. Nice alternative to Argo or HW-9 at a much lower price.
\$150 plus shipping from 03858
Dave K1EPJ

Date: Mon, 28 Aug 2000 18:35:01 -0400
From: Richard Voss <rbvoss@gsinet.net>
To: qrp-l@Lehigh.EDU
Subject: [78290] Re: Noise 101 Was Re: Low Noise Op Amps (long)
Message-ID: <39AAE915.D10D408A@gsinet.net>
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asdfadef

Date: Mon, 28 Aug 2000 22:04:40 +0100
From: Larry S Cahoon <wd3p@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [78291] At the Beach with the EPS-1 and AA Alkaline Batteries
Message-ID: <20000828.223824.-418639.3.wd3p@juno.com>
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Hi Gang

I had a chance to try out the EPS-1 last week while I was at the beach. I rushed to get it done just a couple of days before I left so I had no real chance to test it out prior to the trip. The results were interesting.

First I used it with the DSW-20 and the LDS Z-11 auto tuner. First I should mention that I may have been stretching it with the EPS-1. It has a 2 amp input fuse and the specs are for a continuous 500 mA out. Now the DSW draws 300-400 mA and the LDS can draw up to 400 mA for short periods.

I took along the old AA alkaline batteries from the kids "toys" - gameboy, CD players and the like. The idea was to get the last bit of power out the batteries. After all they are rated down to 0.8 volts per battery and all the batteries I took showed 1.1 volts or better. I set them up in three ten cell packs. The first checked out at about 11.5 Volts, the second at about 12.5 volts, and the last at 13.5 volts. The Z-11 failed to activate with all three battery sets. It would not even try to tune the antenna. The ant. by the way was a simple dipole feed with 450 ohm ladder line through a 4:1 balun.

I thought something must be wrong with the EPS-1. So I replaced the batteries with a set of 4 NiMH. These came out at about 5.5 volts.

Everything worked just perfect. The EPS-1 delivered a consistant 12 volts and the Z-11 tuned the antenna without a problem. Since at this point the tuner would draw almost no power I tried running the DSW off the best of the three sets of the AA batteries. With that set I got strange sound out of the audio of the DSW. I then took the EPS-1 out of the power line - after all the 10 batteries checked in at better than 13 volts. I still got the same results.

What I did notice at that point was that the voltage dropped to about 10.5 volts on transmit and back up to better than 12 volts on receive. My best conclusion is that the batteries were just too far gone to run the rig. The fluctuation in power between the dits was giving me something like a badly unregulated power supply. The problem was with the batteries not the EPS-1. I was disappointed as I had expected better results from the Alkaline batteries, especially with a reading of 1.3 volts the performance curves claim that I should still have half the capacity still in the batteries.

Let me say the EPS-1 worked like a charm. It just cannot cure a weak battery set.

For the rest of the vacation I just used a set of 10 NiMh batteries. These start off at about 13.5 volts for a set and the batteries and never dropped below 12 volts so there was no longer a need to use the EPS-1.

When I got home from the I checked the 13 volts set of AA alkaline batteries and did find that with a 3 ohm resister I could draw 700 mA from them. So there was still power in them. That should have been more than enough current to run the DSW. So about all I can say is the rhythm of the code was such that the batteries could not supply a stable voltage to the rig.

73 de Larry.....WD3P in MD

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